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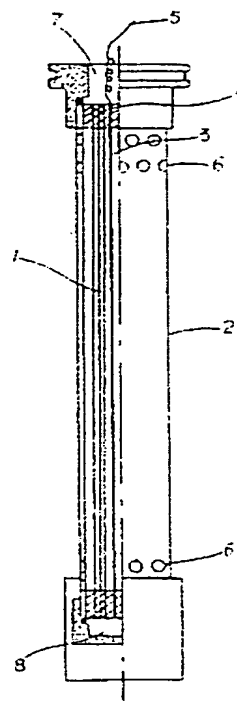
APPLICATION DATE : 03-06-87
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APPLICANT : ASAHI CHEM IND CO LTD;

INVENTOR : KIKUCHI TOSHIAKI;

INT.CL. : B01D 13/01

TITLE : HOLLOW YARN TYPE FILTER FOR
TREATING CONDENSATE



ABSTRACT : PURPOSE: To prevent the deposition of metal oxides on the inner surface of a hollow yarn even when the high-purity condensate of a nuclear power plant is filtered for a long time by inserting ≥ 1 electrically conductive wire rods into a filter consisting of a hollow yarn bundle in the longitudinal direction, and grounding the rods.

CONSTITUTION: One hundred and seventy hollow yarns 1 made of polyethylene are placed in an outer cylinder 2 of polypropylene, and a wire 3 is passed through the one hollow yarn. Both the upper and lower ends of the hollow yarn bundle are fixed in the outer cylinder 2 by an adhesive 4 and sealed, and the wire 3 is grounded 5 from the upper part of the outer cylinder. The filter is used while being hung, and the condensate of a nuclear power plant is charged from an inflow port 6 and discharged from a filtrate outlet 7. In addition, plural wires can be used, the wire is not passed through the hollow yarn, and the wire is placed in the filter, pulled out from the outer cylinder 2, and grounded. As a result, the deposition of oxides can be prevented without any special treatment such as the impartation of hydrophilicity to the hollow yarn.

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